DRIL	LING LO	og -			Page 1 of 2				
Stat	e	Elyria, Ohio St	Start Date August 4, 1981						
Site	Site Chemical Recovery Systems, Inc.			n Date	August 4, 1981				
Bori	Boring No. W-1 G			•	701.93				
Drilling Firm H.C. Nutting Co. Gr Type of Drill CME 750 Driller J. Martin			Groundwater El.						
				_	on 686.43				
			afte	r <u>43</u>	days 686.85				
			tal Dep	th of B	oring 23.0				
	9 -2								
			71	C1-		12-11			
Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.			
	-	The second secon		-					
		Russia Caranga			<u> </u>	<u>-</u>			
	_		-	-					
		Ground Surface							
701.93	_	Ground Surface	:						
	1_	Sandy Clay w/ gravel (fill) Brown	2-5-8	1					
	2_								
	3_	Same							
	4		2-7-11	2					
	5								
	6		3-2-7	NR					
	7 -								
	, –	·		i					
693.93	8								
1		No.		1		1			

State Elyria, Ohio	Boring No. W-1
Site Chemical Recovery Systems, Inc.	Page 2 of 2

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	11_ 12 -	Brick and Cinders (fill) Black	1-2-3	4		
687.93	13_					
	15 16	Clayey Sand Gray	1-1-1	5		
683.93	17			- <u> </u>		
	19	Sand				
		Gray, fine to medium grain	1-2-2	6		
678.93		End of Boring				
	——————————————————————————————————————					_
:		Well specifications - 15.5' of galvanized pipe - 10.0' of well screen (stainle - Pea gravel packing - bentonite seal - stick-up = 2.66'	ss stee	1)		

DRILLING LOG	-	Page <u>1</u> of <u>2</u>				
State	Elyria, Ohio	Start Date	August 4, 1981			
Site Chemical	Recovery Systems, Inc.	Completion Date	August 4, 1981			
Boring No.	W-2	Ground El.	701.3			
Drilling Firm	H.C. Nutting Co.	Groundwater El. at completion	600 B			
Type of Drill	CME 750	at completion	000.0			
Driller	J. Martin	after 43 days	687.13			
Geologist	Mark Hutson	Total Depth of Boring	23.0			

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	1 1	600.50 10				
701.3	_	Ground Surface				
	1_	Sandy Clay w/ gravel and cinders Brown (fill)	6-5-5	1		
'	2					
ļ	3 4		2-2-5	2		
!	5_					
	6_	Sandy Clay w/ gravel and cinders Gray (fill)	2-2-3	3		
	7					
	9_					
	-					

State _E	Elyria, Ohio	Boring	No.		W-2	
Site	Chemical Recovery Systems, Inc.	Page _	2	of		

	<u> </u>			<u> </u>		
			Blow	Sample		Well
Elev.	Depth	Description	Count	No.	Remarks	Const.
	11_	Sandy Clay w/ coal (fill) Gray	2-2-2	4		
688.3	12					
	14 15	Sand and Gravel (fill)				·
	16 17	Brown	7-7-13	` 5		
683.3	18					
	19 20				-	
	-	Sandy Clay w/ organics Gray	3-2-3	6		
678.3	-	End of boring				
		Well specifications				
		- 15.5' of galvanized pipe - 10.0' of well screen (stainl - pea gravel packing - bentonite seal - stick-up = 2.53'	ess ste	e1)		

DRIL	LING LO	G _			Page <u>1</u> of <u>1</u>	-			
Stat	e	Elyria, Ohio S	tart Dat	e	August 4, 198	1			
Site	Chemi	cal Recovery Systems, Inc. Co	Completion Date August 4, 19						
Bori	ng No.	B-3 Gi	Ground E1. 708.48						
Drilling Firm H.C. Nutting Co.			Groundwater El.						
Type of Drill CME 750					on None	•			
Driller J. Martin					days				
Geol	ogist _	Mark Hutson	ocar neb	tn of B	oring 4.5				
			Blow	Sample		Well			
Elev.	Depth	Description	Count		Remarks	Const.			
	1 - 1 - 1 - 1	Ground Surface							
708.48	_	oround burrace							
	1_ 2	Sandy Clay and Gravel (fill) Gray	14-13- 30	1					
	4 -	Sandy Clay and Gravel (fill) Brown	3-9-7	2					
703.98		End of boring	ļ						
	5 				Sandstone				
	6								
	<i>'</i> _								
	8								
	9								

DRIL	LING LO	G -	Page <u>1</u> of <u>1</u>						
Stat	e	Elyria, Ohio St	Start Date August 4, 1981						
Site	. Chemi	cal Recovery Systems, Inc. Co	Completion Date		August 4, 198	1			
Bori	ng No.	B-4 Gr	Ground El. 703.0						
Dril	ling Fi	rm H.C. Nutting Co. Gr	Groundwater El.						
Type of Drill CME 750		11 CME 750	at completion None						
Driller J. Martin					days				
Geol	ogist _	Mark Hutson	cai neb	th of B	oring <u>5.0</u>				
		•			1				
Flor	Depth	Description	Blow Count	Sample No.		Well Const.			
Constant of the Co	- 1 - - -	Ground Surface			; ;				
703.61		Gravel (fill)							
	1_	Brown	5-11 -10	1					
	2								
	3 4	Sandy Clay and Gravel (fill) Brown and Gray	12-13- 13	2					
698.61	5				_				
	6_				Sandstone				
	7_								
	8								
	9								
]						

LING LO	G _			Page 1	of _1	•			
e _,	Elyria, Ohio	Start Date			August 4, 1981				
Chemi	cal Recovery Systems, Inc.	Completion Date August 4, 1981							
Boring No. B-5			Ground El. 707.46						
Drilling Firm H.C. Nutting Co.			Groundwater El.						
Type of Drill CME 750			_						
Driller J. Martin			_						
Geologist Jerome Oskvarek			cii OL n	or mg	10.0				
Donth	Description	Blow				Well Const.			
Depth			NO.	, кеша	ILKB	Const.			
	-			:					
<u> </u>			,						
	Ground Surfa	ace	,						
	Gravel and Cinders (fill)								
1	oraver and ornaers (1111)	5-10-5	1	chemical	analysis				
2_						·			
3)		ah ami a al	1				
4	brown	3-2-3	Z	chemicai	anarysis				
5_						į			
6	Gray	2-3-1	3	chemical	analysis				
7_						!			
8									
9 -	Weathered								
-	Sandstone End of boring								
	e	Ing Firm H.C. Nutting Co. of Drill CME 750 ler J. Martin ogist Jerome Oskvarek Depth Description Ground Surf. Gravel and Cinders (fill) 1 2 3 Sandy Clay and Gravel (fill Brown 4 5 Gray 7 8 Weathered 9	eElyria, Ohio	e	e	e			

DRIL	LING LO	G 			Page 1 of 2				
Stat	e	Elyria, Ohio St	Start Date August 4, 1981						
Site	Chemi	cal Recovery Systems, Inc. Co	Completion Date August 4, 1981						
Boring No. B-6			Ground El. 701.23						
Drilling Firm H.C. Nutting Co.		rm H.C. Nutting Co. Gr	oundwat						
Type of Drill CME 750		11 CME 750	at completion None						
Driller J. Martin			afte	r	days				
Geologist Mark Hutson			tal Dep	th of B	oring 15.0				
Flav	Depth	Description	Blow Count	Sample	Remarks	Well Const.			
Biev.	Depcii	Description	Count	110.	NCMAI KO	CORBE.			
	1	4							
:		1			• ·				
701.23	4	Ground Surface							
		Sandy Clay and Gravel (fill)		•					
	1	Gray	10-11- 12	1	chemical analysis				
	2								
	3_								
	4	Brown	4-4-3	2	chemical analysis				
	5								
		Sandy Clay and Gravel (fill)	, , ,	2					
	6	Brown	1-1-1	3					
	7								
	8								
·	9								
!									

State	Elyria,	Ohio		Borin	g No.	В-6	

Site Chemical Recovery Systems, Inc. Page 2 of 2

	,					
Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	11_	Description Sandy Clay and Gravel (fill) Brown	1-1-3	4	chemical analysis	
	12_				•	
	13_					
687.23	14	End of boring	ļ		Candatana	
	15				Sandstone	
	16				-	
	. 17			:		
	18 19				:	
:	20	1				
				-		
	_					
	-					
	_					
	_					
	_		<u> </u>			

DRIL	LING LO	G ~			Page <u>1</u> of <u>2</u>	
Stat	e	Elyria, Ohio S	tart Dat	e	August 4, 198	1
Site	Chemi	cal Recovery Systems, Inc.	ompletio	n Date	August 4, 198	1
Bori	Boring No. B-7		round El	•	708.48	
Dril	ling Fi	rm H.C. Nutting Co. G	roundwat			
Type of Drill CME 750				_	on 695.48	
Driller J. Martin					days	
Geologist Mark Hutson			otal Dep	th of B	oring 16.5	
	· · · · · · · · · · · · · · · · · · ·		Blow	Sample		Well
Elev.	Depth	Description	Count	No.	Remarks	Const.
	,	: -1.1				:
		****			·	
708.48		Ground Surface				
	1_	Sandy Clay and Gravel (fill) Gray	1-2-5	1	chemical analysis	
į	2_					
	3 4	Brown	2-3-4	2	chemical analysis	
				 		

13-7-8

3

703.48

Sandy Clay w/ concretions Gray

Same

÷∙

State	Elyria, Ohio		Boring	No.]	в-7
_	-			_		
Site	Chemical Recovery Sy	stems, Inc.	Page	2	of	2

L	·					
Elev.	Donah	Decemination	Blow Count	Sample	Domoniko	Well Const.
Frev.	Depth	Description Silty Sand w/ concretions (fill)	Count	No.	Remarks	CORSE.
1	11	Black	1-7-10	4		
				·		
1	12_					
695.48	13					
	14					
1 1	15	Sandy Clay w/ organics and			, ,	
		sand lenses	2-2-4	5	chemical analysis	
691.98	16	Gray				
	17	End of boring	•			:
	*′					
]]	18					
				:	•	
	19	 ;		-		
	20	1				
		 .		-		
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	-					
	-					
	-					!
1 1						
	_					
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	-					
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	_					
	-		1			
	\dashv					'

DRILLING LOG _	Pa	ge <u>1</u> of <u>2</u>
State Elyria, Ohio	Start Date	August 5, 1981
Site Chemical Recovery Systems, Inc.	Completion Date	August 5, 1981
Boring No. B-8	Ground El.	708.79
Drilling Firm H.C. Nutting Co.	Groundwater El. at completion	694 . 29
Type of Drill CME 750	_	
Driller J. Martin	after days	
Geologist Jerome Oskvarek	Total Depth of Boring	g 15.5

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
		18 7			•	
708.29		Ground Surface				
	1	Sandy Clay and Gravel (fill) Gray	2-3-5	1	chemical analysis	
	2					
	3_	Brown	3-2-3	2	chemical analysis	
	5_	Sandy Clay and Gravel (fill)				
	6	Brown	3-3-4	3	chemical analysis	
	7 8	Same	3-3-4	4		
	9			!		

State Elyria, Ohio

Boring No. B-8

Site Chemical Recovery Systems, Inc.

Page 2 of 2

1			_			
			Blow	Sample		Well
Elev.	Depth	Description	Count	No.	Remarks	Const.
	11_	Gravel and Cinders (fill) Black	2-1-2	5	chemical analysis	
	12_					
	13_				•	
	14					
693.29	15_					
	16	Sandstone	50	6	chemical analysis	
	17					
	18		[· · · · · · · · · · · · · · · · · · ·	
	19_				-	:
	20					
				!		
	_					
	_ -					
	<u> </u>					
					F	
		 		Ļ 		ļ

DRIL	LING LO	G -			Page <u>1</u> of <u>1</u>	-	
Stat	e <u>'</u>	Elyria, Ohio	Start Date August 5, 1981				
Site	Chemi	cal Recovery Systems, Inc.	Complet	ion Date	August 5, 198	<u> </u>	
Bori	ng No.	В-9	Ground 1	E1	708.29		
Dril	ling Fi	rm H.C. Nutting Co.	Groundwa		ion None		
Туре	of Dri	11 CME 750			ion None		
Dril	ler	J. Martin			days		
Geo1	ogist _	Jerome Oskvarek	Total De	epth of 1	Boring 4.0		
			Blow	Sample		Well	
Elev.	Depth	Description	Count	No.	Remarks	Const.	
	_		۲			Į	
	_	, i			į		
					Ì		
	_						
	_	Ground Surface	:				
708.29	-						
		Gravel and Cinders (fill)					
	1	Gray	15-16	5 1	chemical analysis	ļ	
706 00			-30				
706.29	2						
	3 -	Sandy Clay		+	1		
704.79		Brown	3-4	2	chemical analysis	j	
	4	End of boring					
	5	Sandstone	ì			1	
	6						
	7 -						
	8_			-	l		
	9 -			1	İ		

DRIL	LING LO	G _			Page <u>1</u> of <u>3</u>	-
Stat	e _,	Elyria, Ohio S	tart Dat	е	September 15, 1981	<u> </u>
Site	_Chemi	cal Recovery Systems, Inc.	ompletio	n Date	September 15, 1981	<u> </u>
Bori	ng No.	₩-3 G	round El		708.42	· · · · ·
Dril	ling Fi	rm H.C. Nutting Co. G	roundwat		•	
Туре	of Dri	11 CME 750			on 698.42	
Dril	ler	J. Martin			day 697.35	
Geol	ogist <u>R</u>	od Bloese / Ron St. John	otal Dep	th of B	oring 34.0	
Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	_				:	··
:	_	*			·	
	_	-				
708.42	. –	Ground Surface				
	1 -				,	
!	2	Sandy Clay and Gravel (fill)	1.			
	3		1			
704.92			-			
703.92	_	Weathered Sandstone	1			
	5	Sandstone - light gray, poor to moderately indurated, very fine	Ī			
	6	grained, very well sorted, well rounded, silica cement, highly				

permeable, arenitic with trace muscovite and ferromagnesic minerals. Fractures one to four inches apart, iron staining prevalent at top and decreasing w/depth. Fractures at top contain silty clay fill material, indicating down fracture migration.

State Elyria, Ohio

Boring No. W-3

Site Chemical Recovery Systems, Inc.

Page 2 of 3

						
Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
		Description	Odne		Wengt Ke	Jones.
697.42	11			,		
	12	Same without fractures and			`	
	13	staining				
	13					
	14_		i	į.		
	15					
	16					
	17					
:	18				ì	
1	-	_			• •	
-	19					
	20_]		
	_					
l						:
686.42						
1	_	Same with fractures four inches				
		to one foot apart containing hematite and limonite. Organic				·
		inclusions are present, as are				
1	25	coal forming with pyrite				
	_					
	_					
680.42		**]		
	_	Same with organic inclusions				
		and no fracturing				
 				 		

State	Elyria, Ohio	В	Boring	No	 W-3
Site	Chemical Recovery Systems.	Taa D	AGA	2	 2

	•				-	
Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	31_ 32_	Same with organic inclusions and no fracturing				
674.42	33_ 34_					
	35	End of boring				
	1,1	Well specifications - 26.2' of galvanized pipe - 10.0' of well screen (stain	l less st	eel)	,	
	1 1	- bentonite seal at bedrock a - grout from bentonite to sum - stick-up = 1.89	surface			
·		*			,	
	1					
	-					
	25					
	-					
			 	ļ		

DRIL	LING LO	G _			Page 1 of :	3
Stat	e	Elyria, Ohio S	tart Dat	е	September 15,	1981
Site	Chemi	cal Recovery Systems, Inc. Co	mpletio	n Date	September 15,	1981
Bori	ng No.	- W-4 G	round El	•	707.90	
Dril	ling Fi	rm H.C. Nutting Co. G	roundwat			
Туре	of Dri	11 CME 750	at c	ompleti	on 697.90	
	•	J. Martin	afte	r <u>1</u>	day 696.29	
		Rod Bloese / Ron St. John	otal Dep	th of B	oring 33.5	
	-8				•	
			.			
Elev.	Depth	Description	Blow Count	Sample No.		Well Const.
;	1					
•	+				**	
	_	<u>-</u>				
·	_	- -			·	
707.90	_	Ground Surface		 		
	1	Sandy Clay and Gravel (fill)				
	2	Gray			<u>-</u> .	
	3_					
			1			1
1	4					

moderately indurated, very fine grained, very well sorted, well rounded, silica cement, highly permeable, arenitic with trace muscovita and ferromagnesic minerals. Fracturing one to four inches apart and filled with silty clay and iron staining, indicating down fracture

migration.

State 1	Elyria,	Ohio
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Boring No. W-4

Site Chemical Recovery Systems, Inc.

Page 2 of 3

						
Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
696.90	11_	Same				
	12 13	Same with fracture four inches to one foot apart and with less filling				
693.90	14	Same with fractures four to six inches apart and containing hematite, limonite, muscovite and organics	·			
689.40	18 19 20	Same with few fractures and little staining	-	·		
		Tittle staining				
	-					
	- - - -					

State	Elvria.	Ohio
SLALE	CIALIA"	Outo

Boring No. W-4

Site Chemical Recovery Systems, Inc.

Page 3 of 3

<u>L</u>	,					
Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
FIEA.	Deptil	Description	Count	NO.	8A Ibmon	const.
	31_	Same with few fractures but				
	32	abundant iron staining				
674.4	33_				*	
6/4.4	34	End of boring				
	35					
	_					
	_	Well specifications				
		- 26.5' of galvanized pipe	Į,			
	_	- 10.0' of well screen (stain - bentonite seal at bedrock s	ness st arface	eel)		
:		<pre>- grout from bentonite to sur - stick-up = 3.0'</pre>				
-	_	- stick-up = 3.0'				
	_		İ			
	-					
				j		
		l				
	 -					
	_					
	-					